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### **JAPANESE / ENGLISH TRANSLATION OF**

**Source: Japanese Patent Office (JPO)**

**Title: Written Opinion Of The International Searching Authority  
for Japanese Patent Application JP 2004 – 015296 A**

**Your Ref #: 20060098 - 001**

**For: W.L. Gore & Associates, Inc.**

# PATENT COOPERATION TREATY

From the Japan Patent Office  
(INTERNATIONAL SEARCH AUTHORITY)

To:		<b>PCT</b>																	
Hisakazu Ueki																			
Address:		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (Article 40/2 of the Regulations under the Law) (PCT Rule 43 / 2.1)																	
530-0003 Fujita Toyobo Building 9 <sup>th</sup> Floor 1-16 Dojima 2 chome, Kita-ku Osaka-shi, Osaka-fu		Date of Mailing ( <i>day/month/year</i> ) 25 January 2005																	
Applicant's or agent's file reference F04-016PCT		FOR FURTHER ACTION See paragraph 2 below																	
International application No. PCT/JP2004/015296	International filing date ( <i>day/month/year</i> ) 08 October 2004	Priority date ( <i>day/month/year</i> ) 10 October 2003																	
International Patent Classification (IPC) or both national classification and IPC Int. Cl <sup>7</sup> H01G 9/058, H01G 9/016, C09J 9/02																			
Applicant Japan Gore-Tex Corporation																			
<p>1. This opinion contains the following items:</p> <table border="0"> <tr> <td><input checked="" type="checkbox"/> Box No. I</td> <td>Basis of opinion</td> </tr> <tr> <td><input type="checkbox"/> Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/> Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/> Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/> Box No. V</td> <td>Reasoned statement under Rule 43 / 2.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement.</td> </tr> <tr> <td><input checked="" type="checkbox"/> Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/> Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input type="checkbox"/> Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table> <p>2. FURTHER ACTION</p> <p>If a demand for international preliminary examination is made, this opinion will be considered to be the initial written opinion of the International Preliminary Examining Authority ("IPEA"), except in the event that the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under PCT Rule 66.1 / 2(b) that written opinions of this International Searching Authority will not be considered as the written opinion of the IPEA.</p> <p>If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.</p> <p>For further options, see Form PCT/ISA/220.</p> <p>3. For further details, see notes to PCT/ISA/220.</p>				<input checked="" type="checkbox"/> Box No. I	Basis of opinion	<input type="checkbox"/> Box No. II	Priority	<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/> Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Rule 43 / 2.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement.	<input checked="" type="checkbox"/> Box No. VI	Certain documents cited	<input type="checkbox"/> Box No. VII	Certain defects in the international application	<input type="checkbox"/> Box No. VIII	Certain observations on the international application
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<input type="checkbox"/> Box No. VIII	Certain observations on the international application																		
Date of completion of this opinion 06 January 2005																			
Name and mailing address Japanese Patent Office (ISA/JP) Postal code: 100-8915 4-3 Kasumigaseki 3-chome Chiyoda-ku, Tokyo		Patent office examiner (authorized officer)  Kiyoshi Kuwabara Telephone No.: 03-3581-1101 Ext. 3565	5R 9375																

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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.  
PCT/JP2004/015296

**Box No. I Basis of opinion**

1. This opinion has been established based on the **language** of the international application except as otherwise indicated hereunder.
  - ☐ This opinion has been established based on a translation of the international application from \_\_\_\_\_, which is the language of a translation furnished for the purpose of an international search (Rules 12.3 and 23.1(b)).
2. With regards to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material
    - ☐ on paper
    - ☐ in electronic form
  - c. time of filing/furnishing
    - ☐ contained in the international application as filed
    - ☐ filed together with the international application in electronic form
    - ☐ furnished subsequently to this Authority for the purposes of search
3. ☐ In addition, if a sequence listing and/or table(s) relating thereto has been filed, a statement has been submitted stating that sequences filed subsequently to the application or in addition thereto are identical to that/those in the application as filed, or that no items going beyond the disclosure as filed are included.
4. Additional comments:

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**WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY**

International application No.  
PCT/JP2004/015296

**Box No. V Reasoned statements under Rule 43 / 2.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement:**

Novelty (N)	Claims	_____ 1-19 _____	YES
	Claims	_____	NO
Inventive step (IS)	Claims	_____	YES
	Claims	_____ 1-19 _____	NO
Industrial applicability (IA)	Claims	_____ 1-19 _____	YES
	Claims	_____	NO

**2. Citations and explanations:**

- Reference 1: JP 11-162787 A (Asahi Glass Co., Ltd.) 18 June 1999,  
claims, paragraphs [0023], [0033]-[0039], [0047]-[0052], and FIG. 1 (no patent family)
- Reference 2: JP 2001-307966 A (Asahi Glass Co., Ltd.) 02 November 2001,  
claims, paragraphs [0030]-[0035] (no patent family)
- Reference 3: JP 07-216330 A (Hokuriku Toryo KK) 15 August 1995,  
claims, paragraph [0016] (no patent family)
- Reference 4: JP 10-004037 A (Toyota Motor Corporation, Ltd.) 16 January 1998,  
claims, paragraphs [0008]-[00011], [0015]-[0017], FIG. 1 (no patent family)
- Reference 5: JP 11-154630 A (Japan Gore-Tex Corporation, Ltd.), 08 June 1999,  
full text, all drawings  
Also: EP 0917166 A2, and US 6359769 B1

**Claims 1-19:**

In Document 1, as cited in the International Search Report, a polarizable electrode sheet is integrated with a surface of an etched collector via a conductive intermediate layer and pressurized. In the electrical double layer capacitor electrode that is described, the conductive intermediate layer (conductive adhesive) contains a resin component comprising styrene-butadiene rubber and a carbonaceous material such as carbon black or graphite.

It is stated in Document 2 that graphite and carbon black are used as conductive materials in a conductive adhesive for an electrical double layer capacitor electrode used to join a collector and a polarizable electrode. It is stated in Document 3 that flaked graphite is used as a conductive material in an electrical double layer capacitor electrode.

It is stated in Document 4 that graphite particles having a size of several microns and carbon black having a particle size of several tens to several hundred nanometers are simultaneously used as conductive materials in order to reduce internal resistance.

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**Supplemental Box**

In case the space in any of the proceeding boxes is not sufficient.

Continuation of: Box V

There is described in Document 5 an electrically double layered capacitor electrode having a polarizable porous sheet integrated with a rough-surfaced collector via a conductive adhesive layer, wherein the pore diameter of the polarized porous sheet is 0.5 to 20  $\mu\text{m}$  and the porosity is 40 to 90%.

Therefore, patent claims 1 through 19 have no inventive steps.

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International application No.  
PCT/JP2004/015296

<b>Box No. VI Certain Documents Cited</b>			
1. Certain published documents (Rules 43 / 2.1 and 70.10)			
Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP 2004-186218 A [P,X]	02 July 2004	29 November 2002	
JP 2004-296863 A [E,X]	21 October 2004	27 March 2003	
2. Non-written disclosures (PCT Rules 43 / 2.1 and 70.9)			
Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)	
_____	_____	_____	

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